



ELG Carbon Fibre Ltd.
RECYCLED CARBON FIBRE

CARBISO™



Milled Fibre



Carbiso™ MF is recycled carbon fibre milled to 80µm or 100µm.

Milled fibres are used in demanding applications to increase mechanical properties and provide tailored electrical and thermal conductivity of the chosen matrix.

The milled carbon fibres have excellent dispersibility as the fibres are unsized and are compatible with most thermoset and thermoplastic matrices.

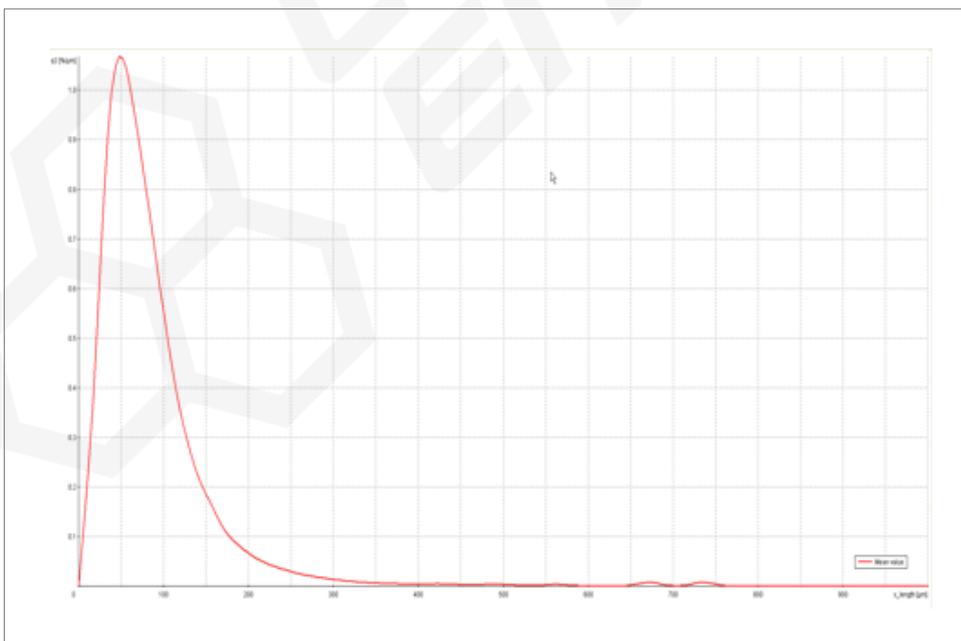


Material data of Carbiso™ MF80

Typical properties	Units	Values
Carbon fibre content	%	>95
Other fibre content	%	<5
Fibre diameter	µm	7
Fibre length	µm	80
Sizing content	%	0
Bulk density	g/l	400
Metal contamination *		<0.5g / 1000g
Packaging (Pillow bag)	kg	17.5

* Our milled fibres have passed through our metal detection and separation systems, metal contamination figures are a guide.

Fibre length distribution of Carbiso™ MF80



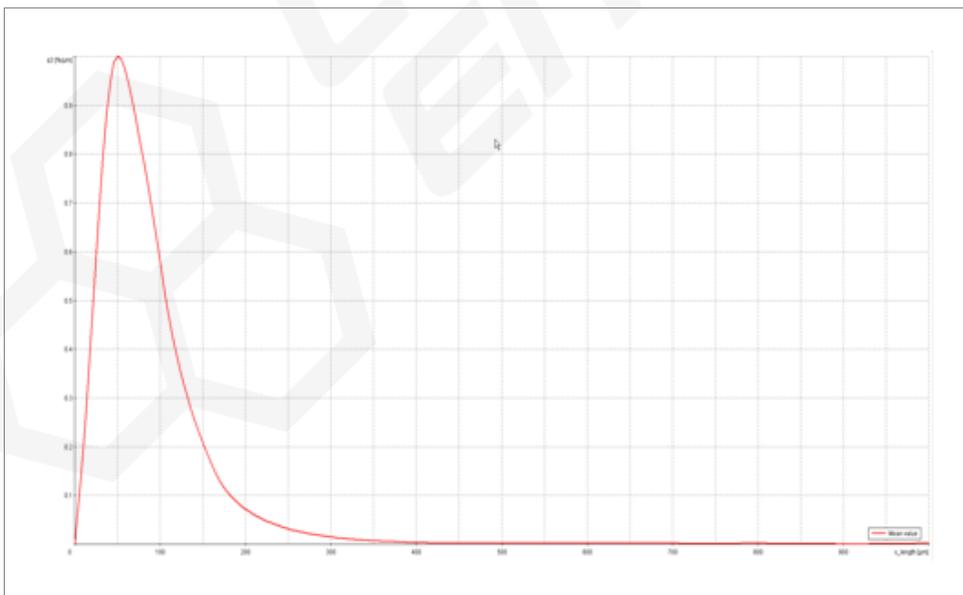


Material data of Carbiso™ MF100

Typical properties	Units	Values
Carbon fibre content	%	>95
Other fibre content	%	<5
Fibre diameter	μm	7
Fibre length	μm	100
Sizing content	%	0
Bulk density	g/l	400
Metal contamination *		<0.5g / 1000g
Packaging (Pillow bag)	kg	17.5

* Our milled fibres have passed through our metal detection and separation systems, metal contamination figures are a guide.

Fibre length distribution of Carbiso™ MF100





Mechanical properties of Carbiso™ MF

Typical properties	Units	Values
Tensile strength **	MPa	3470
Tensile modulus	GPa	246
Fibre density	kg/m ³	1800

** Single filament tests, typically 700MPa lower than impregnated strand testing.



COMPOSITES
ENVISIONS

The information presented in this document is provided in good faith, but no warranty is given or is to be implied regarding its accuracy or relevance to any particular application. Users must satisfy themselves regarding the suitability and safety of their use of the information and products in the application concerned.

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